



### REMARKS

Claims 1-3, 8 and 10-24 are presented for reconsideration.

In the Office Action, the drawings were objected to by the Draftsperson; claims 1-3, 8 and 10-24 were rejected under 35 USC 112, second paragraph; and claims 1-3, 8 and 10-24 were rejected under 35 USC 103 as being unpatentable over Olson et al in view of Rigney. In addition, U.S. Patents to Rickerby et al and Perdikaris were cited, but not applied.

With regard to the objection to the drawings, Formal Drawings will be submitted once the application has been allowed.

By this amendment, the specification has been amended on pages 2 and 3 to show that alitizing is an alternative expression for aluminizing. In addition, claim 1 has been amended to remove the indefiniteness concerning the adhesion layer mentioned in the rejection under 35 USC 112, second paragraph. These amendments are shown in the marked-up version attached as an appendix to this amendment.

With regard to the Examiner's concern about alitizing, it is noted that the present application is a National Stage of a PCT Application and, if the Examiner would look on page 2, line 20 of the German text, the word is "alitieren". This is translated to read "to alitize or to aluminize" (see attached page 34 of Dictionary of Chemistry and Chemical Engineering German/English Dictionary by De Vries et al). Thus, it is submitted that the insertions to pages 2 and 3 do not involve any new matter, since they are supported by the original German text of the PCT Application. It is also submitted that with regard to the Examiner's concern, as pointed out during a telephone conference, alitizing is a metallizing, such as a diffusion, which is well-known to persons of ordinary skill in the art. Thus, it is submitted that the disclosure does describe the invention so that a person of ordinary skill in the art can practice the invention and the disclosure does comply with 35 USC 112. Therefore, it is submitted that the rejection under 35 USC 112, second paragraph, is in error and should be withdrawn with regard to the claims.

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With regard to the prior art rejection, it is noted that Olson et al teaches metallizing a MCrAlY coating super-alloy by applying powder of the alloy with a flame-spraying technique onto the substrate. It is noted that in column 7, lines 40-45, the reference states that the MCrAlY coating can be applied by a plasma spraying, electron beam evaporation, electroplating, sputtering or slurry deposition. However, it is believed that this does not teach or suggest forming the alloy of the individual elements which are produced as a slip by mixing powders containing at least one of the elements of Cr, Ni and Ce with a binding agent, applying the slip on the component part, drying the slip and then aluminizing or alitizing the slip to form the adhesion layer. Thus, while the reference to Olson et al may teach or suggest coating with a similar alloy, it does not coat with a similar method as that recited in applicants' claims and, thus, does not have the advantages, as pointed out in applicants' disclosure, of allowing the slip to be easily applied in an inexpensive process.

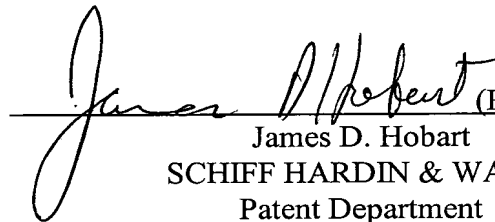
The secondary reference to Rigney teaches using a slurry technique, but it is believed that these are slurries of alloys that are applied and not individual elements, as recited in applicants' claims. Also, while this reference may teach or suggest the subsequent step of drying, it is submitted that it does not teach or suggest applicants' invention. It is submitted that the combination of the two references is only suggested by applicants' disclosure and, thus, the rejection is based on a hindsight combination of the prior art, which is contrary to the Patent Laws. Also, it is submitted that there is no teaching or suggestion in the two references to suggest picking and choosing the various steps from one reference and combining it with the other while disregarding other steps. Therefore, it is submitted that the subject matter of claim 1 is not obvious to a person of ordinary skill in the art and that independent claim 1 and dependent claims 2, 3, 8 and 10-24 are patentable over the combination and are allowable.



In view of the amendments and explanations contained hereinabove, it is respectfully submitted that this application is now in condition for immediate formal allowance and further reconsideration to that end is earnestly solicited.

Respectfully submitted,



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DATED: July 16, 2001

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James D. Hobart  
Name of Applicant's Attorney

  
Signature

July 16, 2001  
Date



## APPENDIX

Version with markings to show changes made.

### IN THE SPECIFICATION:

Page 2, paragraph starting on line 12:

--The attainment of this object is inventively characterized by the steps:

- a) producing a slip by mixing powder containing at least one of the elements Cr, Ni or Ce with a binding agent;
- b) applying the slip onto the component part;
- c) drying the slip at temperatures from room temperature through 300°C; and
- d) alitizing [or calorizing] or aluminizing the slip layer to form an adhesive layer, whereby the method is controlled [such] so that the adhesion layer comprises a structure having a grain size less than 75µm and a cavity proportion from 0 through 40%.--

Page 3, paragraph starting at line 23:

--In a preferred development of the method, the final step of alitizing or aluminizing the slip layer is implemented at a temperature between 800 and 1200°C and a duration of 1 through 12 hours. The [alitizing] aluminizing serves the purpose of diffusion joining and compacting the layer and is implemented in a standard method such as, for example, in the powder pack method upon introduction of Al. The Al diffuses into the layer and into the basic material of the component part.--

### IN THE CLAIMS:

--1. (Amended) Method for manufacturing an adhesion layer for a heat insulating layer that is applied onto a component part, the method comprising the steps:

- a) producing a slip by mixing [powder] powders containing at least one of the elements Cr, Ni or CE with a binding agent;

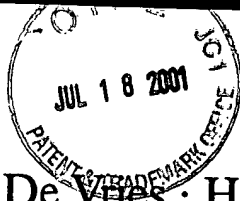


- b) applying the slip onto the component part;
- c) drying the slip at temperatures from room temperature through 300°C; and
- d) alitizing the slip layer to form the adhesion layer, whereby the method is controlled [such] so that the adhesion layer comprises a structure having a grain size less than 75μm and a cavity proportion from 0 through 40%.--

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L. De Vries · H. Kolb

# Dictionary of Chemistry and Chemical Engineering

Second, revised and enlarged edition

Volume I  
German/English

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Wörterbuch der Chemie  
und der  
chemischen Verfahrenstechnik

Zweite,  
überarbeitete und erweiterte Auflage

Band 1  
Deutsch/Englisch



Aldehydammoniak *n* aldehyde ammonia  
 Aldehydgerbung *f* (Gerb) aldehyde tannage  
 Aldehydgrün *n* aldehyde green  
 aldehydhaltig aldehydic, containing aldehyde  
 Aldehydharz *n* aldehyde resin  
 Aldehydin *n* aldehydine,  
 2-ethyl-5-methylpyridine  
 aldehydisch aldehydic  
 Aldehydkondensation *f* aldehyde condensation  
 Aldehydoxydase *f* (Biochem) aldehyde oxidase  
 Aldehydsäure *f* aldehyde acid, aldehydic acid  
 Aldehydverbindung *f* aldehyde compound  
 Aldesulfon *n* aldesulfone  
 Aldim *n* aldime  
 Aldimin *n* aldimine  
 Aldiminchelate *n* aldimine chelate  
 Aldobiuronsäure *f* aldobiuronic acid  
 Aldohexose *f* aldohexose  
 Aldoketen *n* aldoketene  
 Aldol *n* aldol; acetaldol, oxybutyric aldehyde  
 Aldolphanaphthylamin *n* aldol  
 alpha-naphthylamine  
 Aldolase *f* (Biochem) aldolase  
 Aldolkondensation *f* aldol condensation  
 Aldomedon *n* aldomedone  
 Aldonsäure *f* aldonic acid  
 Aldopentose *f* aldopentose  
 Aldose *f* aldose  
 Aldosteron *n* aldosterone  
 Aldotripiperidein *n* aldotripiperideine  
 Aldoxim *n* aldoxime  
 Aldrin *n* (Insektenmittel) aldrin  
 Alektoronsäure *f* alectoronic acid  
 Alepit *n* alepide  
 Alepopinsäure *f* alepopinic acid  
 Aleppokammwolle *f* (Text) Aleppo combings  
 Alethein *n* aletheine  
 Alethin *n* alethine  
 Aleudrin *n* aleudrine  
 Aleuritinsäure *f* aleuritic acid  
 Aleurometer *n* aleurometer  
 Aleuron *n* (Biol) aleurone  
 Aleuronat *n* aleuronate  
 aleuronhaltig aleuronic  
 Alexandrit *m* (Min) alexandrite  
 Alexin *n* alexin, cytase  
 Alfa *f* (Bot) alfa [grass], esparto [grass]  
 Alfagras *n* alfa [grass], alfalfa  
 Alfalfasaponin *n* alfalfasaponin  
 Alfalfol *n* alfalfol  
 Alfapapier *n* (Buchdr) esparto paper  
 Alfenid *n* alfenide  
 Algamagrün *n* algama green  
 Algarobilla *f* (Gerb) algaroba, algarobilla  
 Algarotpulver *n* algaroth powder, antimony  
 oxychloride, basic antimony chloride  
 Alge *f* (Bot) alga (pl. algae), seaweed  
 Algebra *f* (Math) algebra  
 algebraisch algebraic

Algenbekämpfungsmittel *n* algicide  
 Algenbildung *f* formation of algae  
 Algenfaser *f* seaweed fiber  
 Algenniederschlag *m* deposit of algae  
 Algenschleim *m* mucus of algae  
 Algerit *m* algerite  
 Algin *n* algin, alginic acid  
 Alginat *n* alginate  
 Alginatfaser *f* algin fiber  
 Alginsäure *f* alginic acid  
 Algizid *n* algicide  
 Algodonit *m* (Min) algodonite  
 Algolblau *n* algol blue  
 Algolfarbe *f* algol-color  
 Algolin *n* algoline  
 alicyclisch alicyclic  
 Alikantesoda *f* alicant soda  
 Alimemazin *n* alimemazine  
 aliphatisch aliphatic  
 aliquant aliquant  
 aliquot aliquot, proportional  
 Alisonit *m* (Min) alisonite  
 Alit *n* (Min) alite  
 alitieren to alitize; to aluminize  
 Alitieren *n* alitizing, aluminum diffusion coating  
 Alival *n* alival  
 Alizarin *n* 1,2-dihydroxy-anthraquinone,  
 alizarin  
 Alizarinaltrot *n* Turkey red  
 Alizarinblau *n* alizarin blue, anthracene blue  
 Alizarinbraun *n* alizarin brown, alizarin  
 bordeaux, anthracene brown  
 Alizarinfarbe *f* alizarin dye  
 Alizarinlack *m* alizarin lake  
 Alizarinlack *m* alizarin lake  
 Alizarinlack *m* alizarin lake  
 Alizarinmonosulfonsäure *f* alizarin  
 monosulfonic acid  
 Alizarinneurot *n* alizarin new red  
 Alizarinreinblau *n* alizarin sky blue  
 Alizarinrot *n* alizarin red  
 Alizarinsäure *f* (obs) alizarinic acid, phthalic  
 acid  
 Alizarinschwarz *n* alizarin black  
 Alizarinsulfonsäure *f* alizarinsulfonic acid  
 Alizurool *n* (Farbstoff, HN) alizurool  
 alizyklisch alicyclic  
 Alkaleszenz *f* alkalinescence  
 Alkali *n* alkali  
 Alkalialbuminat *n* alkali albuminate  
 Alkaliamalgam *n* alkali amalgam  
 alkaliarm poor in alkali  
 Alkaliatom *n* alkali atom  
 alkalibeständig alkaliproof, alkali-resistant,  
 resistant to alkali  
 alkalibildend alkaligenous  
 Alkalibindemittel *n* alkali-binding agent  
 Alkaliblau *n* alkali blue

Alkalicellulose *f* alk  
 Alkalichlorid *n* alk  
 Alkalichloridelektro  
 electrolyser  
 Alkalicyanid *n* alka  
 alkaliecht fast to al  
 Alkaliechtfarbe *f* a  
 Alkaliechtheit *f* alk  
 Alkaliechtrot *n* alk  
 alkaliempfindlich s  
 Alkalien *p/* alkalis  
 alkalifest alkali-pro  
 alkali-resisting  
 alkalifrei alkali-fre  
 Alkaligehalt *m* alka  
 alkalinity  
 Alkaligestein *n* alka  
 Alkalihalogenid *n* a  
 Alkalihalogenidkon  
 of alkali halides  
 Alkalihalogenidkris  
 Alkalihalogenidschi  
 alkalihaltig alkaline  
 Alkaliherstellung *f*  
 Alkalihumat *n* alka  
 Alkalihydrat *n* alka  
 Alkalihydroxid *n* al  
 Alkaliindustrie *f* al  
 Alkalikarbonat *n* a  
 Alkalilauge *f* alkali  
 alkalilöslich soluble  
 Alkalilösung *f* alka  
 Alkalimenge *f* amon  
 Alkalimesser *m* alk  
 Alkalimessung *f* alk  
 Alkalimetall *n* alka  
 Alkalimetallchelate  
 Alkalimetallion *n* a  
 Alkalimeter *n* alka  
 Alkalimetrie *f* alka  
 alkalimetrisch alkali  
 Alkalinität *f* alkaline  
 Alkaliphenolat *n* al  
 Alkaliphosphat *n* al  
 Alkaliphotozelle *f* a  
 Alkaliquellung *f* sw  
 alkaliraffiniert alka  
 Alkalireserve *f* alka  
 Alkalirückstand *m* a  
 Alkalisator *m* alka  
 alkalisch alkaline,  
 to alkalyze  
 Alkalischmelze *f* alk  
 Alkalisieranlage *f* a  
 alkalisierbar alkaliz  
 alkalisieren to alkali  
 alkaline, to treat v  
 Alkalisieren *n* alka  
 Alkalisierung *f* alka